NOV 1 5 2004 BY 7RADE RATE 73 us seq list updated.ST25.txt

<110> Lorantis Ltd.

SEQUENCE LISTING

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35 40 45

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Asp Leu Arg Met Ser Ala Met Ala Pro Thr Pro Pro Gln Gly Glu Val 100 105 110

Asp Ala Asp Cys Met Asp Val Asn Val Arg Gly Pro Asp Gly Phe Thr 115 120 125

Pro Leu Met Ile Ala Ser Cys Ser Gly Gly Gly Leu Glu Thr Gly Asn 130 135 140

Gln Gly Ala Ser Leu His Asn Gln Thr Asp Arg Thr Gly Glu Thr Ala 165 170 175

Leu His Leu Ala Ala Arg Tyr Ser Arg Ser Asp Ala Ala Lys Arg Leu 180 185 190

Leu Glu Ala Ser Ala Asp Ala Asn Ile Gln Asp Asn Met Gly Arg Thr 195 200 205

Pro Leu His Ala Ala Val Ser Ala Asp Ala Gln Gly Val Phe Gln Ile 210 215 220

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Thr Thr Pro Leu Ile Leu Ala Ala Arg Leu Ala Val Glu Gly Met Leu
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Glu Ser Pro Ala Leu Pro Thr Ser Leu Pro Ser Ser Leu Val Pro Pro 705 710 715 720

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Met Gly Ser Arg Cys Ala Leu Ala Leu Ala Val Leu Ser Ala Leu Leu Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe Val Asn Lys Lys Gly Leu Leu Gly Asn Arg Asn Cys Cys Arg Gly Gly Ala Gly Pro Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu Lys His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly Ser Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp Gly Gly Gly Ala Asp Ser Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His 120 Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Glu Arg Gly Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys Thr Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys Asp Lys Pro Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln Pro Trp 265 Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp Leu Asn Tyr Cys Thr His His Lys Pro Cys Lys Asn Gly Ala Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr Thr Gly Ala Thr Cys Glu Leu Gly Ile Asp Glu Cys Asp Pro Ser Pro Cys Lys Asn Gly Gly Ser Cys Thr Asp Leu Glu Asn Ser Tyr Ser Cys

Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met 360 Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Ser Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser Ser Pro Cys Ser Asn 410 Gly Ala Lys Cys Val Asp Leu Gly Asp Ala Tyr Leu Cys Arg Cys Gln 425 Ala Gly Phe Ser Gly Arg His Cys Asp Asp Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Gly Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr Gly Arg Asn Cys Ser Ala Pro Val Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys His Glu Arg Gly His Gly Tyr Val Cys Glu Cys Ala Arg Gly Tyr Gly Gly Pro Asn Cys Gln Phe Leu Leu Pro Glu Leu Pro Pro Gly Pro Ala Val Val Asp Leu Thr Glu Lys Leu Glu Gly Gln Gly Gly Pro Phe Pro Trp Val Ala Val Cys Ala Gly Val Ile Leu Val Leu Met Leu Leu Leu 555 Gly Cys Ala Ala Val Val Cys Val Arg Leu Arg Leu Gln Lys His Arg Pro Pro Ala Asp Pro Cys Arg Gly Glu Thr Glu Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp His Ser Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro Ala Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Asp Ala His Ser Lys Arg Asp Thr Lys Cys Gln Pro Gln Gly Ser Ser Gly Glu Glu Lys Gly Thr Pro Thr Thr Leu Arg Gly Gly Glu Ala Ser Glu 680 Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr Ser Lys Asp Thr Lys Tyr 695 Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Val Ile Ala 715

Thr Glu Val

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<211> 618

<212> PRT

<213> Homo sapiens

<400> 35

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Gln Ile His Ser Phe Gly Pro Gly Pro Gly Pro Gly Ala Pro Arg Ser 35 40 45

Pro Cys Ser Ala Arg Leu Pro Cys Arg Leu Phe Phe Arg Val Cys Leu
50 60

Lys Pro Gly Leu Ser Glu Glu Ala Ala Glu Ser Pro Cys Ala Leu Gly 65 70 75 80

Ala Ala Leu Ser Ala Arg Gly Pro Val Tyr Thr Glu Gln Pro Gly Ala 85 90 95

Pro Ala Pro Asp Leu Pro Leu Pro Asp Gly Leu Leu Gln Val Pro Phe 100 105 110

Arg Asp Ala Trp Pro Gly Thr Phe Ser Phe Ile Ile Glu Thr Trp Arg 115 120 125

Glu Glu Leu Gly Asp Gln Ile Gly Gly Pro Ala Trp Ser Leu Leu Ala 130 135 140

Asp Ile Gln Arg Ala Gly Ala Trp Glu Leu Arg Phe Ser Tyr Arg Ala 165 170 175

Arg Cys Glu Pro Pro Ala Val Gly Thr Ala Cys Thr Arg Leu Cys Arg 180 185 190

Pro Arg Ser Ala Pro Ser Arg Cys Gly Pro Gly Leu Arg Pro Cys Ala 195 200 205

Pro Leu Glu Asp Glu Cys Glu Ala Pro Leu Val Cys Arg Ala Gly Cys
210 215 220

Ser Pro Glu His Gly Phe Cys Glu Gln Pro Gly Glu Cys Arg Cys Leu 225 230 235 240

Glu Gly Trp Thr Gly Pro Leu Cys Thr Val Pro Val Ser Thr Ser Ser 245 250 255

Cys Leu Ser Pro Arg Gly Pro Ser Ser Ala Thr Thr Gly Cys Leu Val 260 265 270

Pro Gly Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser 275 280 285

P11073us seq list updated.ST25.tx	
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Tyr Gly Leu Arg Cys Glu Val Ser Gly Val Thr Cys Ala Asp Gly F 305 315 315	ro 20
Cys Phe Asn Gly Gly Leu Cys Val Gly Gly Ala Asp Pro Asp Ser A	.la
Tyr Ile Cys His Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys Glu I 340 345 350	ys
Arg Val Asp Arg Cys Ser Leu Gln Pro Cys Arg Asn Gly Gly Leu C 355 360 365	ys
Leu Asp Leu Gly His Ala Leu Arg Cys Arg Cys Arg Ala Gly Phe A	.la
Gly Pro Arg Cys Glu His Asp Leu Asp Asp Cys Ala Gly Arg Ala C 385 390 395 4	ys 00
Ala Asn Gly Gly Thr Cys Val Glu Gly Gly Gly Ala His Arg Cys S 405 410 415	er
Cys Ala Leu Gly Phe Gly Gly Arg Asp Cys Arg Glu Arg Ala Asp F	ro
Cys Ala Ala Arg Pro Cys Ala His Gly Gly Arg Cys Tyr Ala His E 435 440 445	he
Ser Gly Leu Val Cys Ala Cys Ala Pro Gly Tyr Met Gly Ala Arg C 450 455 460	'ys
Glu Phe Pro Val His Pro Asp Gly Ala Ser Ala Leu Pro Ala Ala F 465 470 475 4	00 180
Pro Gly Leu Arg Pro Gly Asp Pro Gln Arg Tyr Leu Leu Pro Pro A 485 490 495	la
Leu Gly Leu Leu Val Ala Ala Gly Val Ala Gly Ala Ala Leu Leu I 500 505 510	eu
Val His Val Arg Arg Gly His Ser Gln Asp Ala Gly Ser Arg I 515 520 525	eu
Leu Ala Gly Thr Pro Glu Pro Ser Val His Ala Leu Pro Asp Ala I 530 535 540	eu
Asn Asn Leu Arg Thr Gln Glu Gly Ser Gly Asp Gly Pro Ser Ser S	er 60
Val Asp Trp Asn Arg Pro Glu Asp Val Asp Pro Gln Gly Ile Tyr V 565 570 575	'al
Ile Ser Ala Pro Ser Ile Tyr Ala Arg Glu Val Ala Thr Pro Leu F 580 585 590	he
Pro Pro Leu His Thr Gly Arg Ala Gly Gln Arg Gln His Leu Leu F 595 600 605	'he
Pro Tyr Pro Ser Ser Ile Leu Ser Val Lys 610 615	
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<213> Homo sapiens	

<400> 36

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Gly Tyr Tyr Gly Leu His Cys Glu His Ser Thr Leu Ser Cys Ala Asp 355 360 365

Ser Pro Cys Phe Asn Gly Gly Ser Cys Arg Glu Arg Asn Gln Gly Ala 370 375 380

Asn Tyr Ala Cys Glu Cys Pro Pro Asn Phe Thr Gly Ser Asn Cys Glu 385 390 395

Lys Lys Val Asp Arg Cys Thr Ser Asn Pro Cys Ala Asn Gly Gln
405 410 415

Cys Leu Asn Arg Gly Pro Ser Arg Met Cys Arg Cys Arg Pro Gly Phe
420
430

Thr Gly Thr Tyr Cys Glu Leu His Val Ser Asp Cys Ala Arg Asn Pro 435 440 445

Cys Ala His Gly Gly Thr Cys His Asp Leu Glu Asn Gly Leu Met Cys 450 460

Thr Cys Pro Ala Gly Phe Ser Gly Arg Arg Cys Glu Val Arg Thr Ser 465 470 475 480

Ile Asp Ala Cys Ala Ser Ser Pro Cys Phe Asn Arg Ala Thr Cys Tyr 485 490 495

Thr Asp Leu Ser Thr Asp Thr Phe Val Cys Asn Cys Pro Tyr Gly Phe 500 505 510

Val Gly Ser Arg Cys Glu Phe Pro Val Gly Leu Pro Pro Ser Phe Pro 515 520 525

Trp Val Ala Val Ser Leu Gly Val Gly Leu Ala Val Leu Leu Val Leu 530 540

Leu Gly Met Val Ala Val Ala Val Arg Gln Leu Arg Leu Arg Arg Pro 545 550 560

Asp Asp Gly Ser Arg Glu Ala Met Asn Asn Leu Ser Asp Phe Gln Lys

Asp Asn Leu Ile Pro Ala Ala Gln Leu Lys Asn Thr Asn Gln Lys Lys 580 585

Glu Leu Glu Val Asp Cys Gly Leu Asp Lys Ser Asn Cys Gly Lys Gln
595 600 605

Gln Asn His Thr Leu Asp Tyr Asn Leu Ala Pro Gly Pro Leu Gly Arg 610 615 620

Gly Thr Met Pro Gly Lys Phe Pro His Ser Asp Lys Ser Leu Gly Glu 625 630 635

Lys Ala Pro Leu Arg Leu His Ser Glu Lys Pro Glu Cys Arg Ile Ser 645 650 655

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<212> PRT

<400> 37

Met Arg Ser Pro Arg Thr Arg Gly Arg Ser Gly Arg Pro Leu Ser Leu Leu Leu Ala Leu Leu Cys Ala Leu Arg Ala Lys Val Cys Gly Ala Ser Gly Gln Phe Glu Leu Glu Ile Leu Ser Met Gln Asn Val Asn Gly Glu Leu Gln Asn Gly Asn Cys Cys Gly Gly Ala Arg Asn Pro Gly Asp Arg Lys Cys Thr Arg Asp Glu Cys Asp Thr Tyr Phe Lys Val Cys Leu Lys Glu Tyr Gln Ser Arg Val Thr Ala Gly Gly Pro Cys Ser Phe Gly Ser Gly Ser Thr Pro Val Ile Gly Gly Asn Thr Phe Asn Leu Lys Ala Ser Arg Gly Asn Asp Arg Asn Arg Ile Val Leu Pro Phe Ser Phe Ala Trp Pro Arg Ser Tyr Thr Leu Leu Val Glu Ala Trp Asp Ser Ser Asn Asp Thr Val Gln Pro Asp Ser Ile Ile Glu Lys Ala Ser His Ser Gly Met Ile Asn Pro Ser Arg Gln Trp Gln Thr Leu Lys Gln Asn Thr Gly Val Ala His Phe Glu Tyr Gln Ile Arg Val Thr Cys Asp Asp Tyr Tyr Gly Phe Gly Cys Asn Lys Phe Cys Arg Pro Arg Asp Asp Phe Phe Gly His Tyr Ala Cys Asp Gln Asn Gly Asn Lys Thr Cys Met Glu Gly Trp 215 Met Gly Pro Glu Cys Asn Arg Ala Ile Cys Arg Gln Gly Cys Ser Pro Lys His Gly Ser Cys Lys Leu Pro Gly Asp Cys Arg Cys Gln Tyr Gly Trp Gln Gly Leu Tyr Cys Asp Lys Cys Ile Pro His Pro Gly Cys Val His Gly Ile Cys Asn Glu Pro Trp Gln Cys Leu Cys Glu Thr Asn Trp Gly Gly Gln Leu Cys Asp Lys Asp Leu Asn Tyr Cys Gly Thr His Gln Pro Cys Leu Asn Gly Gly Thr Cys Ser Asn Thr Gly Pro Asp Lys Tyr 305 Gln Cys Ser Cys Pro Glu Gly Tyr Ser Gly Pro Asn Cys Glu Ile Ala Glu His Ala Cys Leu Ser Asp Pro Cys His Asn Arg Gly Ser Cys Lys Glu Thr Ser Leu Gly Phe Glu Cys Glu Cys Ser Pro Gly Trp Thr Gly Pro Thr Cys Ser Thr Asn Ile Asp Asp Cys Ser Pro Asn Asn Cys Ser 375 His Gly Gly Thr Cys Gln Asp Leu Val Asn Gly Phe Lys Cys Val Cys Pro Pro Gln Trp Thr Gly Lys Thr Cys Gln Leu Asp Ala Asn Glu Cys 410 Glu Ala Lys Pro Cys Val Asn Ala Lys Ser Cys Lys Asn Leu Ile Ala 425 Ser Tyr Tyr Cys Asp Cys Leu Pro Gly Trp Met Gly Gln Asn Cys Asp Ile Asn Ile Asn Asp Cys Leu Gly Gln Cys Gln Asn Asp Ala Ser Cys Arg Asp Leu Val Asn Gly Tyr Arg Cys Ile Cys Pro Pro Gly Tyr Ala Gly Asp His Cys Glu Arg Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Leu Asn Gly Gly His Cys Gln Asn Glu Ile Asn Arg Phe Gln Cys Leu 505 Cys Pro Thr Gly Phe Ser Gly Asn Leu Cys Gln Leu Asp Ile Asp Tyr Cys Glu Pro Asn Pro Cys Gln Asn Gly Ala Gln Cys Tyr Asn Arg Ala Ser Asp Tyr Phe Cys Lys Cys Pro Glu Asp Tyr Glu Gly Lys Asn Cys Ser His Leu Lys Asp His Cys Arg Thr Thr Pro Cys Glu Val Ile Asp 570 Ser Cys Thr Val Ala Met Ala Ser Asn Asp Thr Pro Glu Gly Val Arg 585 Tyr Ile Ser Ser Asn Val Cys Gly Pro His Gly Lys Cys Lys Ser Gln 600 Ser Gly Gly Lys Phe Thr Cys Asp Cys Asn Lys Gly Phe Thr Gly Thr Tyr Cys His Glu Asn Ile Asn Asp Cys Glu Ser Asn Pro Cys Arg Asn Gly Gly Thr Cys Ile Asp Gly Val Asn Ser Tyr Lys Cys Ile Cys Ser Asp Gly Trp Glu Gly Ala Tyr Cys Glu Thr Asn Ile Asn Asp Cys Ser Gln Asn Pro Cys His Asn Gly Gly Thr Cys Arg Asp Leu Val Asn Asp Phe Tyr Cys Asp Cys Lys Asn Gly Trp Lys Gly Lys Thr Cys His Ser 695 Arg Asp Ser Gln Cys Asp Glu Ala Thr Cys Asn Asn Gly Gly Thr Cys

- Tyr Asp Glu Gly Asp Ala Phe Lys Cys Met Cys Pro Gly Gly Trp Glu
 725 730 735
- Gly Thr Thr Cys Asn Ile Ala Arg Asn Ser Ser Cys Leu Pro Asn Pro
- Cys His Asn Gly Gly Thr Cys Val Val Asn Gly Glu Ser Phe Thr Cys
 755 760 765
- Val Cys Lys Glu Gly Trp Glu Gly Pro Ile Cys Ala Gln Asn Thr Asn 770 780
- Asp Cys Ser Pro His Pro Cys Tyr Asn Ser Gly Thr Cys Val Asp Gly 785 790 795 800
- Asp Asn Trp Tyr Arg Cys Glu Cys Ala Pro Gly Phe Ala Gly Pro Asp 805 810 815
- Cys Arg Ile Asn Ile Asn Glu Cys Gln Ser Ser Pro Cys Ala Phe Gly 820 825 830
- Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg Cys Val Cys Pro Pro 835 840 845
- Gly His Ser Gly Ala Lys Cys Gln Glu Val Ser Gly Arg Pro Cys Ile 850 855 860
- Thr Met Gly Ser Val Ile Pro Asp Gly Ala Lys Trp Asp Asp Asp Cys 865 870 875 880
- Asn Thr Cys Gln'Cys Leu Asn Gly Arg Ile Ala Cys Ser Lys Val Trp 885 890 895
- Cys Gly Pro Arg Pro Cys Leu Leu His Lys Gly His Ser Glu Cys Pro 900 905 910
- Ser Gly Gln Ser Cys Ile Pro Ile Leu Asp Asp Gln Cys Phe Val His 915 920 925
- Pro Cys Thr Gly Val Gly Glu Cys Arg Ser Ser Ser Leu Gln Pro Val
- Lys Thr Lys Cys Thr Ser Asp Ser Tyr Tyr Gln Asp Asn Cys Ala Asn 945 950 955 960
- Ile Thr Phe Thr Phe Asn Lys Glu Met Met Ser Pro Gly Leu Thr Thr 965 970 975
- Glu His Ile Cys Ser Glu Leu Arg Asn Leu Asn Ile Leu Lys Asn Val 980 985 990
- Ser Ala Glu Tyr Ser Ile Tyr Ile Ala Cys Glu Pro Ser Pro Ser Ala 995 1000 1005
- Asn Asn Glu Ile His Val Ala Ile Ser Ala Glu Asp Ile Arg Asp 1010 1015 1020
- Asp Gly Asn Pro Ile Lys Glu Ile Thr Asp Lys Ile Ile Asp Leu 1025 1030 1035
- Val Ser Lys Arg Asp Gly Asn Ser Ser Leu Ile Ala Ala Val Ala 1040 1045 1050
- Glu Val Arg Val Gln Arg Arg Pro Leu Lys Asn Arg Thr Asp Phe 1055 1060 1065
- Leu Val Pro Leu Leu Ser Ser Val Leu Thr Val Ala Trp Ile Cys 1070 1075 1080

Cys	Leu 1085		. Thr	Ala	Phe		Tı			lis eu Ar	g L			25.t Arg 1	
Pro	Gly 1100		His	Thr	His	Ser		a Se	er Gl	lu As	_	sn :	Thr '	Thr i	Asn
Asn	Val 1115	_	g Glu	Gln	Leu	Asn 112		n Il	le Ly	s As		ro :	Ile (Glu 1	Lys
His	Gly 1130		a Asn	Thr	Val	Pro		.e Lj	/s As	T q		lu <i>i</i> L40	Asn :	Lys i	Asn
Ser	Lys 1145		: Ser	Lys	: Ile	Arg 115		ir Hi	is As	sn Se		lu 1 155	val (Glu (Glu
Asp	Asp 1160		: Asp	Lys	His	Gln 116		n Ly	ys Al	la Ai		ne 2 170	Ala :	Lys (Gln
Pro	Ala 1175	_	Thr	Leu	ı Val	Asp 118		g Gl	lu G	lu Ly		co 1 L85	Pro .	Asn (Gly
Thr	Pro 1190		Lys	His	Pro	Asn 119		p Th	nr As	n Ly		ln 2 200	Asp .	Asn Z	Arg
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Met 1		Ala		5		-			10					15	
Met 1 Leu	Arg	Ala Leu	Trp 20	5 Val	Gln	Ala	Ala	Arg 25	10 Pro	Met	Gly	Tyr	Phe 30	15 Glu	Leu
Met 1 Leu Gln	Arg Ala	Ala Leu Ser 35	Trp 20 Ala	5 - Val Leu	Gln Arg	Ala Asn	Ala Val 40	Arg 25 Asn	10 Pro Gly	Met Glu	Gly Leu	Tyr Leu 45	Phe 30 Ser	15 Glu Gly	Leu Ala
Met 1 Leu Gln Cys	Arg Ala Leu Cys	Ala Leu Ser 35 Asp	Trp 20 Ala Gly	Val Leu Asp	Gln Arg Gly	Ala Asn Arg 55	Ala Val 40	Arg 25 Asn Thr	10 Pro Gly Arg	Met Glu Ala	Gly Leu Gly 60	Tyr Leu 45 Gly	Phe 30 Ser Cys	Glu Gly Gly	Leu Ala His
Met 1 Leu Gln Cys Asp 65	Arg Ala Leu Cys 50	Ala Leu Ser 35 Asp	Trp 20 Ala Gly Asp	Val Leu Asp	Gln Arg Gly Tyr	Ala Asn Arg 55	Ala Val 40 Thr	Arg 25 Asn Thr	10 Pro Gly Arg Cys	Met Glu Ala Leu 75	Gly Leu Gly 60 Lys	Tyr Leu 45 Gly	Phe 30 Ser Cys	Glu Gly Gly Gln	Leu Ala His Ala 80
Met 1 Leu Gln Cys Asp 65 Lys	Arg Ala Leu Cys 50 Glu	Ala Leu Ser 35 Asp Cys	Trp 20 Ala Gly Asp	Val Leu Asp Thr	Gln Arg Gly Tyr 70 Gly	Ala Asn Arg 55 Val	Ala Val 40 Thr Arg	Arg 25 Asn Thr Val Ser	10 Pro Gly Arg Cys Tyr	Met Glu Ala Leu 75	Gly Leu Gly 60 Lys	Tyr Leu 45 Gly Glu Gly	Phe 30 Ser Cys Tyr	Glu Gly Gly Gln Thr	Leu Ala His Ala 80 Pro
Met 1 Leu Gln Cys Asp 65 Lys	Arg Ala Leu Cys 50 Glu Val	Ala Leu Ser 35 Asp Cys Thr	Trp 20 Ala Gly Asp Pro Gly 100	Val Leu Asp Thr Thr 85 Asn	Gln Arg Gly Tyr 70 Gly Ser	Ala Asn Arg 55 Val Pro	Ala Val 40 Thr Arg Cys	Arg 25 Asn Thr Val Ser Leu 105	10 Pro Gly Arg Cys Tyr 90 Pro	Met Glu Ala Leu 75 Gly Pro	Gly Leu Gly 60 Lys His	Tyr Leu 45 Gly Glu Gly Gly	Phe 30 Ser Cys Tyr Ala Ala 110	Glu Gly Gly Gln Thr 95 Ala	Leu Ala His Ala 80 Pro Gly
Met 1 Leu Gln Cys Asp 65 Lys Val	Arg Ala Leu Cys 50 Glu Val Leu	Ala Leu Ser 35 Asp Cys Thr Gly Ala 115	Trp 20 Ala Gly Asp Pro Gly 100 Arg	Val Leu Asp Thr Thr 85 Asn	Gln Arg Gly Tyr 70 Gly Ser Arg	Ala Asn Arg 55 Val Pro Phe Ala	Ala Val 40 Thr Arg Cys Tyr Arg 120	Arg 25 Asn Thr Val Ser Leu 105 Ala	10 Pro Gly Arg Cys Tyr 90 Pro	Met Glu Ala Leu 75 Gly Pro	Gly Leu Gly 60 Lys His Ala	Tyr Leu 45 Gly Glu Gly Gly Gly Gly	Phe 30 Ser Cys Tyr Ala Ala 110	Glu Gly Gly Gln Thr 95 Ala	Leu Ala His Ala 80 Pro Gly Gly
Met 1 Leu Gln Cys Asp 65 Lys Val Asp	Arg Ala Leu Cys 50 Glu Val Leu Arg	Ala Leu Ser 35 Asp Cys Thr Gly Ala 115	Trp 20 Ala Gly Asp Pro Gly 100 Arg	Val Leu Asp Thr Thr 85 Asn	Gln Arg Gly Tyr 70 Gly Ser Arg	Ala Asn Arg 55 Val Pro Phe Ala Gln 135	Ala Val 40 Thr Arg Cys Tyr Arg 120 Phe	Arg 25 Asn Thr Val Ser Leu 105 Ala	10 Pro Gly Arg Cys Tyr 90 Pro Gly Trp	Met Glu Ala Leu 75 Gly Pro Gly Pro	Gly Leu Gly 60 Lys His Ala Asp	Tyr Leu 45 Gly Glu Gly Gly Gly Ser	Phe 30 Ser Cys Tyr Ala Ala 110 Asp	Glu Gly Gly Gln Thr 95 Ala Pro	Leu Ala His Ala 80 Pro Gly Gly Leu

Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu 180 Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn Lys Phe Cys Arg Pro Arg Asn Asp Phe Phe Gly His Tyr Thr Cys Asp Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe 265 Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly Gly Thr Cys Ile Asn Ala Glu Pro Asp Gln Tyr Arg Cys Thr Cys Pro Asp Gly Tyr Ser Gly Arg Asn Cys Glu Lys Ala Glu His Ala Cys Thr Ser Asn Pro Cys Ala Asn Gly Gly Ser Cys His Glu Val Pro Ser Gly Phe Glu Cys His Cys Pro Ser Gly Trp Ser Gly Pro Thr Cys Ala Leu Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val 410 Gly Ala Thr Cys Gln Leu Asp Ala Asn Glu Cys Glu Gly Lys Pro Cys 425 Leu Asn Ala Phe Ser Cys Lys Asn Leu Ile Gly Gly Tyr Tyr Cys Asp Cys Ile Pro Gly Trp Lys Gly Ile Asn Cys His Ile Asn Val Asn Asp Cys Arg Gly Gln Cys Gln His Gly Gly Thr Cys Lys Asp Leu Val Asn Gly Tyr Gln Cys Val Cys Pro Arg Gly Phe Gly Gly Arg His Cys Glu Leu Glu Arg Asp Lys Cys Ala Ser Ser Pro Cys His Ser Gly Gly Leu 505 Cys Glu Asp Leu Ala Asp Gly Phe His Cys His Cys Pro Gln Gly Phe Ser Gly Pro Leu Cys Glu Val Asp Val Asp Leu Cys Glu Pro Ser Pro

Cys Arg Asn Gly Ala Arg Cys Tyr Asn Leu Glu Gly Asp Tyr Tyr Cys Ala Cys Pro Asp Asp Phe Gly Gly Lys Asn Cys Ser Val Pro Arg Glu 570 Pro Cys Pro Gly Gly Ala Cys Arg Val Ile Asp Gly Cys Gly Ser Asp 585 Ala Gly Pro Gly Met Pro Gly Thr Ala Ala Ser Gly Val Cys Gly Pro His Gly Arg Cys Val Ser Gln Pro Gly Gly Asn Phe Ser Cys Ile Cys Asp Ser Gly Phe Thr Gly Thr Tyr Cys His Glu Asn Ile Asp Asp Cys Leu Gly Gln Pro Cys Arg Asn Gly Gly Thr Cys Ile Asp Glu Val Asp Ala Phe Arg Cys Phe Cys Pro Ser Gly Trp Glu Gly Glu Leu Cys Asp Thr Asn Pro Asn Asp Cys Leu Pro Asp Pro Cys His Ser Arg Gly Arg Cys Tyr Asp Leu Val Asn Asp Phe Tyr Cys Ala Cys Asp Asp Gly Trp 695 Lys Gly Lys Thr Cys His Ser Arg Glu Phe Gln Cys Asp Ala Tyr Thr 715 Cys Ser Asn Gly Gly Thr Cys Tyr Asp Ser Gly Asp Thr Phe Arg Cys Ala Cys Pro Pro Gly Trp Lys Gly Ser Thr Cys Ala Val Ala Lys Asn Ser Ser Cys Leu Pro Asn Pro Cys Val Asn Gly Gly Thr Cys Val Gly Ser Gly Ala Ser Phe Ser Cys Ile Cys Arg Asp Gly Trp Glu Gly Arg Thr Cys Thr His Asn Thr Asn Asp Cys Asn Pro Leu Pro Cys Tyr Asn Gly Gly Ile Cys Val Asp Gly Val Asn Trp Phe Arg Cys Glu Cys Ala Pro Gly Phe Ala Gly Pro Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln Ser Ser Pro Cys Ala Tyr Gly Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg Cys Ser Cys Pro Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu 855 Val Ile Gly Phe Gly Arg Ser Cys Trp Ser Arg Gly Thr Pro Phe Pro 865 His Gly Ser Ser Trp Val Glu Asp Cys Asn Ser Cys Arg Cys Leu Asp Gly Arg Arg Asp Cys Ser Lys Val Trp Cys Gly Trp Lys Pro Cys Leu 905

- P11073us seq list updated.ST25.txt Leu Ala Gly Gln Pro Glu Ala Leu Ser Ala Gln Cys Pro Leu Gly Gln 915 920 925
- Arg Cys Leu Glu Lys Ala Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu 930 935 940
- Ala Trp Gly Glu Cys Gly Ala Glu Glu Pro Pro Ser Thr Pro Cys Leu 945 950 955 960
- Pro Arg Ser Gly His Leu Asp Asn Asn Cys Ala Arg Leu Thr Leu His
 965 970 975
- Phe Asn Arg Asp His Val Pro Gln Gly Thr Thr Val Gly Ala Ile Cys 980 985 990
- Ser Gly Ile Arg Ser Leu Pro Ala Thr Arg Ala Val Ala Arg Asp Arg 995 1000 1005
- Leu Leu Val Leu Leu Cys Asp Arg Ala Ser Ser Gly Ala Ser Ala 1010 1015 1020
- Val Glu Val Ala Val Ser Phe Ser Pro Ala Arg Asp Leu Pro Asp 1025 1030 1035
- Ser Ser Leu Ile Gln Gly Ala Ala His Ala Ile Val Ala Ala Ile 1040 1045 1050
- Thr Gln Arg Gly Asn Ser Ser Leu Leu Leu Ala Val Thr Glu Val 1055 1060 1065
- Lys Val Glu Thr Val Val Thr Gly Gly Ser Ser Thr Gly Leu Leu 1070 1075 1080
- Val Pro Val Leu Cys Gly Ala Phe Ser Val Leu Trp Leu Ala Cys
- Val Val Leu Cys Val Trp Trp Thr Arg Lys Arg Arg Lys Glu Arg 1100 1105 1110
- Glu Arg Ser Arg Leu Pro Arg Glu Glu Ser Ala Asn Asn Gln Trp 1115 1120 1125
- Ala Pro Leu Asn Pro Ile Arg Asn Pro Ile Glu Arg Pro Gly Gly
- His Lys Asp Val Leu Tyr Gln Cys Lys Asn Phe Thr Pro Pro Pro 1145 1150 1155
- Arg Arg Ala Asp Glu Ala Leu Pro Gly Pro Ala Gly His Ala Ala 1160 1165 1170
- Val Arg Glu Asp Glu Glu Asp Glu Asp Leu Gly Arg Gly Glu Glu 1175 1180 1185
- Asp Ser Leu Glu Ala Glu Lys Phe Leu Ser His Lys Phe Thr Lys 1190 1195 1200
- Asp Pro Gly Arg Ser Pro Gly Arg Pro Ala His Trp Ala Ser Gly 1205 1210 1215
- Pro Lys Val Asp Asn Arg Ala Val Arg Ser Ile Asn Glu Ala Arg 1220 1230
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<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<222> (891)..(891)

<223> X is any amino acid

<400> 39

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Leu Ala Ala Arg Gly Pro Arg Cys Ser Gln Pro Gly Glu Thr Cys Leu 20 25 30

Asn Gly Gly Lys Cys Glu Ala Ala Asn Gly Thr Glu Ala Cys Val Cys 35 40 45

Gly Gly Ala Phe Val Gly Pro Arg Cys Gln Asp Pro Asn Pro Cys Leu
50 60

Ser Thr Pro Cys Lys Asn Ala Gly Thr Cys His Val Val Asp Arg Arg 65 70 75 80

Gly Val Ala Asp Tyr Ala Cys Ser Cys Ala Leu Gly Phe Ser Gly Pro 85 90 95

Leu Cys Leu Thr Pro Leu Asp Asn Ala Cys Leu Thr Asn Pro Cys Arg 100 105 110

Asn Gly Gly Thr Cys Asp Leu Leu Thr Leu Thr Glu Tyr Lys Cys Arg 115 120 125

Cys Pro Pro Gly Trp Ser Gly Lys Ser Cys Gln Gln Ala Asp Pro Cys
130 140

Ala Ser Asn Pro Cys Ala Asn Gly Gly Gln Cys Leu Pro Phe Glu Ala 145 150 155 160

Ser Tyr Ile Cys His Cys Pro Pro Ser Phe His Gly Pro Thr Cys Arg 165 170 175

Gln Asp Val Asn Glu Cys Gly Gln Lys Pro Arg Leu Cys Arg His Gly

Gly Thr Cys His Asn Glu Val Gly Ser Tyr Arg Cys Val Cys Arg Ala 195 200 205

Thr His Thr Gly Pro Asn Cys Glu Arg Pro Tyr Val Pro Cys Ser Pro 210 215 220

Ser Pro Cys Gln Asn Gly Gly Thr Cys Arg Pro Thr Gly Asp Val Thr 225 230 235 240

His Glu Cys Ala Cys Leu Pro Gly Phe Thr Gly Gln Asn Cys Glu Glu
245 250 255

Asn Ile Asp Asp Cys Pro Gly Asn Asn Cys Lys Asn Gly Gly Ala Cys 260 265 270

Val Asp Gly Val Asn Thr Tyr Asn Cys Pro Cys Pro Pro Glu Trp Thr

Gly	Gln 290	Tyr	Cys	Thr	Glu	Asp 295	Val	Asp	Glu	Cys	Gln 300	Leu	Met	Pro	Asn
Ala 305	Cys	Gln	Asn	Gly	Gly 310	Thr	Cys	His	Asn	Thr 315	His	Gly	Gly	Tyr	Asn 320
Cys	Val	Cys	Val	Asn 325	Gly	Trp	Thr	Gly	Glu 330	Asp	Cys	Ser	Glu	Asn 335	Ile
Asp	Asp	Cys	Ala 340	Ser	Ala	Ala	Cys	Phe 345	His	Gly	Ala	Thr	Cys 350	His	Asp
Arg	Val	Ala 355	Ser	Phe	Tyr	Cys	Glu 360	Cys	Pro	His	Gly	Arg 365	Thr	Gly	Leu
Leu	Cys 370	His	Leu	Asn	Asp	Ala 375	Cys	Ile	Ser	Asn	Pro 380	Сув	Asn	Glu	Gly
Ser 385	Asn	Cys	Asp	Thr	Asn 390	Pro	Val	Asn	Gly	Lys 395	Ala	Ile	Cys	Thr	Cys 400
Pro	Ser	Gly	Tyr	Thr 405	Gly	Pro	Ala	Cys	Ser 410	Gln	Asp	Val	Asp	Glu 415	Cys
Ser	Leu	Gly	Ala 420	Asn	Pro	Cys	Glu	His 425	Ala	Gly	Lys	Cys	Ile 430	Asn	Thr
Leu	Gly	Ser 435	Phe	Glu	Cys	Gln	Cys 440	Leu	Gln	Gly	Tyr	Thr 445	Gly	Pro	Arg
Cys	Glu 450	Ile	Asp	Val	Asn	Glu 455	Cys	Val	Ser	Asn	Pro 460	Cys	Gln	Asn	Asp
Ala 465	Thr	Cys	Leu	Asp	Gln 470	Ile	Gly	Glu	Phe	Gln 475	Cys	Met	Cys	Met	Pro 480
Gly	Tyr	Glu	Gly	Val 485	His	Cys	Glu	Val	Asn 490	Thr	Asp	Glu	Cys	Ala 495	Ser
Ser	Pro	Cys	Leu 500	His	Asn	Gly	Arg	Cys 505	Leu	Asp	Lys	Ile	Asn 510	Glu	Phe
	•	515	Cys			•	520		-			525		-	•
	530		Cys			535		_	-		540				
545			Asn		550					555					560
			Glu	565					570					575	
Tyr	Gly	Ser	Cys 580	Lys	Asp	Gly	Val	Ala 585	Thr	Phe	Thr	Cys	Leu 590	Cys	Arg
Pro	Gly	Tyr 595	Thr	Gly	His	His	Cys 600	Glu	Thr	Asn	Ile	Asn 605	Glu	Cys	Ser
	610		Cys			615	_		_		620				
625			Phe		630					635					640
Asn	Leu	Asp	Asp	Cys 645	Ala	Ser	Ser	Pro	Cys 650	Asp	Ser	Gly	Thr	Cys 655	Leu

Asp Lys Ile Asp Gly Tyr Glu Cys Ala Cys Glu Pro Gly Tyr Thr Gly Ser Met Cys Asn Ser Asn Ile Asp Glu Cys Ala Gly Asn Pro Cys His Asn Gly Gly Thr Cys Glu Asp Gly Ile Asn Gly Phe Thr Cys Arg Cys 695 Pro Glu Gly Tyr His Asp Pro Thr Cys Leu Ser Glu Val Asn Glu Cys Asn Ser Asn Pro Cys Val His Gly Ala Cys Arg Asp Ser Leu Asn Gly Tyr Lys Cys Asp Cys Asp Pro Gly Trp Ser Gly Thr Asn Cys Asp Ile 740 745 750Asn Asn Asn Glu Cys Glu Ser Asn Pro Cys Val Asn Gly Gly Thr Cys Lys Asp Met Thr Ser Gly Ile Val Cys Thr Cys Arg Glu Gly Phe Ser Gly Pro Asn Cys Gln Thr Asn Ile Asn Glu Cys Ala Ser Asn Pro Cys Leu Asn Lys Gly Thr Cys Ile Asp Asp Val Ala Gly Tyr Lys Cys Asn Cys Leu Leu Pro Tyr Thr Gly Ala Thr Cys Glu Val Val Leu Ala Pro 825 Cys Ala Pro Ser Pro Cys Arg Asn Gly Gly Glu Cys Arg Gln Ser Glu Asp Tyr Glu Ser Phe Ser Cys Val Cys Pro Thr Ala Gly Ala Lys Gly Gln Thr Cys Glu Val Asp Ile Asn Glu Cys Val Leu Ser Pro Cys Arg His Gly Ala Ser Cys Gln Asn Thr His Gly Xaa Tyr Arg Cys His Cys Gln Ala Gly Tyr Ser Gly Arg Asn Cys Glu Thr Asp Ile Asp Asp Cys 905 Arg Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile Asn Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Arg Gly Thr Phe Cys Glu Glu Asp Ile Asn Glu Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn Cys Thr Asp Cys Val Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe Ser Gly Ile His Cys Glu Asn Asn Thr Pro Asp Cys Thr Glu Ser Ser 985 Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser Phe Thr Cys 1000

Leu Cys Pro Pro Gly Phe Thr Gly Ser Tyr Cys Gln His Val Val

1015

1020

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Asp	Gly 1040	Arg	Gly	Leu	His	Arg 1045	Cys	Thr	Cys	Pro	Gln 1050	Gly	Tyr	Thr
Gly	Pro 1055	Asn	Cys	Gln	Asn	Leu 1060		His	Trp	Cys	Asp 1065	Ser	Ser	Pro
Cys	Lys 1070	Asn	Gly	Gly	Lys	Cys 1075	Trp	Gln	Thr	His	Thr 1080	Gln	Tyr	Arg
Cys	Glu 1085	Cys	Pro	Ser	Gly	Trp 1090	Thr	Gly	Leu	Tyr	Cys 1095	Asp	Val	Pro
Ser	Val 1100	Ser	Cys	Glu	Val	Ala 1105	Ala	Gln	Arg	Gln	Gly 1110	Val	Asp	Val
Ala	Arg 1115	Leu	Cys	Gln	His	Gly 1120		Leu	Cys	Val	Asp 1125	Ala	Gly	Asn
Thr	His 1130	His	Cys	Arg	Cys	Gln 1135	Ala	Gly	Tyr	Thr	Gly 1140	Ser	Tyr	Cys
Glu	Asp 1145	Leu	Val	Asp	Glu	Cys 1150		Pro	Ser	Pro	Cys 1155	Gln	Asn	Gly
Ala	Thr 1160	Cys	Thr	Asp	Tyr	Leu 1165	Gly	Gly	Tyr	Ser	Cys 1170	Lys	Cys	Val
Ala	Gly 1175	Tyr	His	Gly	Val	Asn 1180	-	Ser	Glu	Glu	Ile 1185	Asp	Glu	Cys
Leu	Ser 1190	His	Pro	Cys	Gln	Asn 1195	Gly	Gly	Thr	Cys	Leu 1200	Asp	Leu	Pro
Asn	Thr 1205	Tyr	Lys	Cys	Ser	Cys 1210		Arg	Gly	Thr	Gln 1215	Gly	Val	His
Cys	Glu 1220	Ile	Asn	Val	Asp	Asp 1225	Cys	Asn	Pro	Pro	Val 1230	Asp	Pro	Val
Ser	Arg 1235	Ser	Pro	Lys	Cys	Phe 1240	Asn	Asn	Gly	Thr	Cys 1245	Val	Asp	Gln
Val	Gly 1250	Gly	Tyr	Ser	Cys	Thr 1255	Cys	Pro	Pro	Gly	Phe 1260	Val	Gly	Glu
Arg	Cys 1265	Glu	Gly	Asp	Val	Asn 1270	Glu	Cys	Leu	Ser	Asn 1275	Pro	Cys	Asp
Ala	Arg 1280	Gly	Thr	Gln	Asn	Cys 1285	Val	Gln	Arg	Val	Asn 1290	Asp	Phe	His
Cys	Glu 1295	Cys	Arg	Ala	Gly	His 1300	Thr	Gly	Arg	Arg	Cys 1305	Glu	Ser	Val
Ile	Asn 1310	Gly	Cys	Lys	Gly	Lys 1315	Pro	Cys	Lys	Asn	Gly 1320	Gly	Thr	Cys
Ala	Val 1325	Ala	Ser	Asn	Thr	Ala 1330	Arg	Gly	Phe	Ile	Cys 1335	Lys	Cys	Pro
Ala	Gly 1340	Phe	Glu	Gly	Ala	Thr 1345	Cys	Glu	Asn	Asp	Ala 1350	Arg	Thr	Сув
Gly	Ser 1355	Leu	Arg	Cys	Leu	Asn 1360	Gly	Gly	Thr	Сув	Ile 1365	Ser	Gly	Pro
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Tyr Asn Gln Gly Thr Cys	Glu Pro Thr Ser Glu 1405	Ser Pro Phe Tyr 1410
Arg Cys Leu Cys Pro Ala	Lys Phe Asn Gly Leu	Leu Cys His Ile
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Leu Asp Tyr Ser Phe Gly	Gly Gly Ala Gly Arg	Asp Ile Pro Pro
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Pro Leu Ile Glu Glu Ala	Cys Glu Leu Pro Glu	Cys Gln Glu Asp
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Ala Gly Asn Lys Val Cys	Ser Leu Gln Cys Asn	Asn His Ala Cys
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Gly Trp Asp Gly Gly Asp	Cys Ser Leu Asn Phe	Asn Asp Pro Trp
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Trp Ala Ala Pro Asp Ala	Leu Leu Gly Gln Val	Lys Ala Ser Leu
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Gly	Glu 1790	Asp	Ser	Val	Gly	Leu 1795	Lys	Pro	Leu	Lys	Asn 1800	Ala	Ser	Asp
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Leu	Asp 1850	Ala	Ala	Asp	Leu	Arg 1855	Met	Ser	Ala	Met	Ala 1860	Pro	Thr	Pro
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Ala	Val 1910	Ile	Ser	Asp	Phe	Ile 1915	Tyr	Gln	Gly	Ala	Ser 1920	Leu	His	Asn
Gln	Thr 1925	Asp	Arg	Thr	Gly	Glu 1930		Ala	Leu	His	Leu 1935	Ala	Ala	Arg
Tyr	Ser 1940	Arg	Ser	Asp	Ala	Ala 1945	Lys	Arg	Leu	Leu	Glu 1950	Ala	Ser	Ala
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Ala	Val 1970	Ser	Ala	Asp	Ala	Gln 1975	Gly	Val	Phe	Gln	Ile 1980	Leu	Ile	Arg
Asn	Arg 1985	Ala	Thr	Asp	Leu	Asp 1990	Ala	Arg	Met	His	Asp 1995	Gly	Thr	Thr
Pro	Leu 2000	Ile	Leu	Ala	Ala	Arg 2005	Leu	Ala	Val	Glu	Gly 2010	Met	Leu	Glu
Asp	Leu 2015	Ile	Asn	Ser	His	Ala 2020	Asp	Val	Asn	Ala	Val 2025	Asp	Asp	Leu
Gly	Lys 2030	Ser	Ala	Leu	His	Trp 2035	Ala	Ala	Ala	Val	Asn 2040	Asn	Val	Asp
Ala	Ala 2045	Val	Val	Leu	Leu	Lys 2050		Gly	Ala	Asn	Lys 2055	Asp	Met	Gln
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Ser	Tyr 2075	Glu	Thr	Ala	Lys	P1 Val 2080	.1073 Leu	us s Leu	eq l Asp	ist His	updat Phe 2085	ed.S Ala	T25. Asn	txt Arg
Asp	Ile 2090	Thr	Asp	His	Met	Asp 2095	Arg	Leu	Pro	Arg	Asp 2100	Ile	Ala	Gln
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Phe	Gln 2225	Gln	Ser	Pro	Ser	Val 2230	Pro	Leu	Asn	His	Leu 2235	Pro	Gly	Met
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Pro	Glu 2255	Met	Ala	Ala	Leu	Gly 2260	Gly	Gly	Gly	Arg	Leu 2265	Ala	Phe	Glu
Thr	Gly 2270	Pro	Pro	Arg	Leu	Ser 2275	His	Leu	Pro	Val	Ala 2280	Ser	Gly	Thr
Ser	Thr 2285	Val	Leu	Gly	Ser	Ser 2290	Ser	Gly	Gly	Ala	Leu 2295	Asn	Phe	Thr
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Arg	Leu 2315	Gln	Ser	Gly	Met	Val 2320	Pro	Asn	Gln	Tyr	Asn 2325	Pro	Leu	Arg
Gly	Ser 2330	Val	Ala	Pro	Gly	Pro 2335	Leu	Ser	Thr	Gln	Ala 2340	Pro	Ser	Leu
Gln	His 2345	Gly	Met	Val	Gly	Pro 2350	Leu	His	Ser	Ser	Leu 2355	Ala	Ala	Ser
Ala	Leu 2360	Ser	Gln	Met	Met	Ser 2365	Tyr	Gln	Gly	Leu	Pro 2370	Ser	Thr	Arg
Leu	Ala 2375	Thr	Gln	Pro	His	Leu 2380	Val	Gln	Thr	Gln	Gln 2385	Val	Gln	Pro
Gln	Asn 2390	Leu	Gln	Met	Gln	Gln 2395	Gln	Asn	Leu	Gln	Pro 2400	Ala	Asn	Ile
Gln	Gln 2405	Gln	Gln	Ser	Leu	Gln 2410	Pro	Pro	Pro	Pro	Pro 2415	Pro	Gln	Pro
His	Leu	Gly	Val	Ser	Ser	Ala	Ala	Ser	Gly	His	Leu	Gly	Arg	Ser

P11073us seq list updated.ST25.txt 2420 2425 2430
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Ala Leu Pro Thr Ser Leu Pro Ser Ser Leu Val Pro Pro Val Thr 2465 2470 2475
Ala Ala Gln Phe Leu Thr Pro Pro Ser Gln His Ser Tyr Ser Ser 2480 2485 2490
Pro Val Asp Asn Thr Pro Ser His Gln Leu Gln Val Pro Glu His 2495 2500 2505
Pro Phe Leu Thr Pro Ser Pro Glu Ser Pro Asp Gln Trp Ser Ser 2510 2515 2520
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Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr 35 40 45
Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His 50 55 60
Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val 65 70 75 80
Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe 85 90 95
Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser 100 105 110
Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr 115 120 125
Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp 130 135 140
Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr 145 150 155 160
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Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys 185 Gln His Gly Gly Thr Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln Cys Pro Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Gly Phe Glu Gly Ser Thr Cys Glu Arg Asn Ile Asp Asp Cys Pro Asn His Arg Cys Gln Asn Gly Gly Val Cys Val Asp Gly Val Asn Thr Tyr Asn Cys Arg Cys Pro Pro Gln Trp Thr Gly Gln Phe Cys Thr Glu Asp Val Asp Glu Cys Leu Leu Gln Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys Ala Asn Arg Asn Gly Gly Tyr Gly Cys Val Cys Val Asn Gly Trp Ser Gly Asp Asp Cys Ser Glu Asn Ile Asp Asp Cys Ala Phe Ala Ser Cys Thr Pro Gly Ser Thr Cys Ile Asp Arg Val Ala Ser Phe Ser Cys Met Cys Pro Glu Gly Lys 360 Ala Gly Leu Leu Cys His Leu Asp Asp Ala Cys Ile Ser Asn Pro Cys His Lys Gly Ala Leu Cys Asp Thr Asn Pro Leu Asn Gly Gln Tyr Ile Cys Thr Cys Pro Gln Gly Tyr Lys Gly Ala Asp Cys Thr Glu Asp Val Asp Glu Cys Ala Met Ala Asn Ser Asn Pro Cys Glu His Ala Gly Lys 425 Cys Val Asn Thr Asp Gly Ala Phe His Cys Glu Cys Leu Lys Gly Tyr Ala Gly Pro Arg Cys Glu Met Asp Ile Asn Glu Cys His Ser Asp Pro Cys Gln Asn Asp Ala Thr Cys Leu Asp Lys Ile Gly Gly Phe Thr Cys Leu Cys Met Pro Gly Phe Lys Gly Val His Cys Glu Leu Glu Ile Asn Glu Cys Gln Ser Asn Pro Cys Val Asn Asn Gly Gln Cys Val Asp Lys 505 Val Asn Arg Phe Gln Cys Leu Cys Pro Pro Gly Phe Thr Gly Pro Val 520

Cys Gln Ile Asp Il 530	e Asp Asp. 535				ed.ST25.t Leu Asn	
Ala Lys Cys Ile As 545	sp His Pro 550	Asn Gly	Tyr Glu 555	Cys Gln	Cys Ala	Thr 560
Gly Phe Thr Gly Va	_	Glu Glu	Asn Ile 570	Asp Asn	Cys Asp 575	Pro
Asp Pro Cys His Hi 580	s Gly Gln	Cys Gln 585	Asp Gly	Ile Asp	Ser Tyr 590	Thr
Cys Ile Cys Asn Pr 595	o Gly Tyr	Met Gly 600	Ala Ile	Cys Ser 605	Asp Gln	Ile
Asp Glu Cys Tyr Se 610	er Ser Pro 615		Asn Asp	Gly Arg 620	Cys Ile	Asp
Leu Val Asn Gly Ty 625	r Gln Cys 630	Asn Cys	Gln Pro 635	Gly Thr	Ser Gly	Val 640
Asn Cys Glu Ile As	-	Asp Cys	Ala Ser 650	Asn Pro	Cys Ile 655	His
Gly Ile Cys Met As 660	sp Gly Ile	Asn Arg 665	Tyr Ser	Cys Val	Cys Ser 670	Pro
Gly Phe Thr Gly Gl	ln Arg Cys	Asn Ile 680	Asp Ile	Asp Glu 685	Cys Ala	Ser
Asn Pro Cys Arg Ly 690	s Gly Ala 695	Thr Cys	Ile Asn	Gly Val 700	Asn Gly	Phe
Arg Cys Ile Cys Pr 705	o Glu Gly 710	Pro His	His Pro 715	Ser Cys	Tyr Ser	Gln 720
Val Asn Glu Cys Le 72		Pro Cys	Ile His 730	Gly Asn	Cys Thr 735	Gly
Gly Leu Ser Gly Ty 740	r Lys Cys	Leu Cys 745	Asp Ala	Gly Trp	Val Gly 750	Ile
Asn Cys Glu Val As 755	sp Lys Asn	Glu Cys 760	Leu Ser	Asn Pro 765	Cys Gln	Asn
Gly Gly Thr Cys As 770	sp Asn Leu 775	Val Asn	Gly Tyr	Arg Cys 780	Thr Cys	Lys
Lys Gly Phe Lys Gl 785	ly Tyr Asn 790	Cys Gln	Val Asn 795	Ile Asp	Glu Cys	Ala 800
Ser Asn Pro Cys Le		Gly Thr	Cys Phe 810	Asp Asp	Ile Ser 815	Gly
Tyr Thr Cys His Cy 820	s Val Leu	Pro Tyr 825	Thr Gly	Lys Asn	Cys Gln 830	Thr
Val Leu Ala Pro Cy 835	s Ser Pro	Asn Pro 840	Cys Glu	Asn Ala 845	Ala Val	Cys
Lys Glu Ser Pro As 850	n Phe Glu 855	_	Thr Cys	Leu Cys 860	Ala Pro	Gly
Trp Gln Gly Gln Ar 865	g Cys Thr 870	Ile Asp	Ile Asp 875	Glu Cys	Ile Ser	Lys 880
Pro Cys Met Asn Hi 88	_	Cys His	Asn Thr 890	Gln Gly	Ser Tyr 895	Met
Cys Glu Cys Pro Pr	co Gly Phe	Ser Gly	Met Asp	Cys Glu	Glu Asp	Ile

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Gly Val Asn Thr Phe Ser Cys Leu Cys Leu Pro Gly Phe Thr Gly Asp 930 935 940

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Ala Gly Phe Asp Gly Val His Cys Glu Asn Asn Ile Asn Glu Cys Thr 980 985 990

Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser 995 1000 1005

Phe Ser Cys Leu Cys Pro Val Gly Phe Thr Gly Ser Phe Cys Leu 1010 1015 1020

His Glu Ile Asn Glu Cys Ser Ser His Pro Cys Leu Asn Glu Gly 1025 1030 1035

Thr Cys Val Asp Gly Leu Gly Thr Tyr Arg Cys Ser Cys Pro Leu 1040 1045 1050

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Arg Ser Pro Cys Lys Asn Lys Gly Thr Cys Val Gln Lys Lys Ala 1070 1075 1080

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Asp Val Pro Asn Val Ser Cys Asp Ile Ala Ala Ser Arg Arg Gly 1100 1105

Val Leu Val Glu His Leu Cys Gln His Ser Gly Val Cys Ile Asn 1115 1120 1125

Ala Gly Asn Thr His Tyr Cys Gln Cys Pro Leu Gly Tyr Thr Gly
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Ser Tyr Cys Glu Glu Gln Leu Asp Glu Cys Ala Ser Asn Pro Cys 1145 1150 1155

Gln His Gly Ala Thr Cys Ser Asp Phe Ile Gly Gly Tyr Arg Cys 1160 1165 1170

Glu Cys Val Pro Gly Tyr Gln Gly Val Asn Cys Glu Tyr Glu Val 1175 1180 1185

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Asp Leu Val Asn His Phe Lys Cys Ser Cys Pro Pro Gly Thr Arg 1205 1210 1215

Gly Leu Cys Glu Glu Asn Ile Asp Asp Cys Ala Arg Gly Pro 1220 1225 1230

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Pro	Gln 1310	Met	Pro	Cys	Leu	Asn 1315	Gly	Gly	Thr	Cys	Ala 1320	Val	Ala	Ser
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Gly	Ala 1340	Arg	Cys	Gln	Ser	Ser 1345	Cys	Gly	Gln	Val	Lys 1350	Cys	Arg	Lys
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Met	Glu 1460	Asn	Pro	Trp	Ala	Asn 1465	Cys	Ser	Ser	Pro	Leu 1470	Pro	Cys	Trp
Asp	Tyr 1475	Ile	Asn	Asn	Gln	Cys 1480	Asp	Glu	Leu	Cys	Asn 1485	Thr	Val	Glu
Cys	Leu 1490	Phe	Asp	Asn	Phe	Glu 1495	Cys	Gln	Gly	Asn	Ser 1500	Lys	Thr	Cys
Lys	Tyr 1505	Asp	Lys	Tyr	Cys	Ala 1510	Asp	His	Phe	Lys	Asp 1515	Asn	His	Cys
Asn	Gln 1520	Gly	Cys	Asn	Ser	Glu 1525	Glu	Cys	Gly	Trp	Asp 1530	Gly	Leu	Asp
Cys	Ala 1535	Ala	Asp	Gln	Pro	Glu 1540	Asn	Leu	Ala	Glu	Gly 1545	Thr	Leu	Val
Ile	Val 1550	Val	Leu	Met	Pro	Pro 1555	Glu	Gln	Leu	Leu	Gln 1560	Asp	Ala	Arg
Ser	Phe 1565	Leu	Arg	Ala	Leu	Gly 1570	Thr	Leu	Leu	His	Thr 1575	Asn	Leu	Arg
Ile	Lys 1580	Arg	Asp	Ser	Gln	Gly 1585	Glu	Leu	Met	Val	Tyr 1590	Pro	Tyr	Tyr
Gly	Glu 1595	Lys	Ser	Ala	Ala	Met 1600	Lys	Lys	Gln	Arg	Met 1605		Arg	Arg

Ser	Leu 1610	Pro	Gly	Glu	Gln	P1 Glu 1615	1073 Gln	us s Glu	eq l Val	ist Ala	updat Gly 1620	ed.S Ser	T25. Lys	txt Val
Phe	Leu 1625	Glu	Ile	Asp	Asn	Arg 1630	Gln	Cys	Val	Gln	Asp 1635	Ser	Asp	His
Cys	Phe 1640	Lys	Asn	Thr	Asp	Ala 1645	Ala	Ala	Ala	Leu	Leu 1650	Ala	Ser	His
Ala	Ile 1655	Gln	Gly	Thr	Leu	Ser 1660	-	Pro	Leu	Val	Ser 1665	Val	Val	Ser
Glu	Ser 1670	Leu	Thr	Pro	Glu	Arg 1675	Thr	Gln	Leu	Leu	Tyr 1680	Leu	Leu	Ala
Val	Ala 1685	Val	Val	Ile	Ile	Leu 1690		Ile	Ile	Leu	Leu 1695	Gly	Val	Ile
Met	Ala 1700	Lys	Arg	Lys	Arg	Lys 1705	His	Gly	Ser	Leu	Trp 1710	Leu	Pro	Glu
Gly	Phe 1715	Thr	Leu	Arg	Arg	Asp 1720		Ser	Asn	His	Lys 1725	Arg	Arg	Glu
Pro	Val 1730	Gly	Gln	Asp	Ala	Val 1735	Gly	Leu	Lys	Asn	Leu 1740	Ser	Val	Gln
Val	Ser 1745	Glu	Ala	Asn	Leu	Ile 1750	Gly	Thr	Gly	Thr	Ser 1755	Glu	His	Trp
Val	Asp 1760	Asp	Glu	Gly	Pro	Gln 1765	Pro	Lys	Lys	Val	Lys 1770	Ala	Glu	Asp
Glu	Ala 1775	Leu	Leu	Ser	Glu	Glu 1780	_	Asp	Pro	Ile	Asp 1785	Arg	Arg	Pro
Trp	Thr 1790	Gln	Gln	His	Leu	Glu 1795	Ala	Ala	Asp	Ile	Arg 1800	Arg	Thr	Pro
Ser	Leu 1805	Ala	Leu	Thr	Pro	Pro 1810	Gln	Ala	Glu	Gln	Glu 1815	Val	Asp	Val
Leu	Asp 1820	Val	Asn	Val	Arg	Gly 1825	Pro	Asp	Gly	Сув	Thr 1830	Pro	Leu	Met
	1835				_	1840					Ser 1845			
Glu	Asp 1850	Ala	Glu	Asp	Ser	Ser 1855	Ala	Asn	Ile	Ile	Thr 1860	Asp	Leu	Val
Tyr	Gln 1865	Gly	Ala	Ser	Leu	Gln 1870	Ala	Gln	Thr	Asp	Arg 1875	Thr	Gly	Glu
Met	Ala 1880	Leu	His	Leu	Ala	Ala 1885	Arg	Tyr	Ser	Arg	Ala 1890	Asp	Ala	Ala
Lys	Arg 1895	Leu	Leu	Asp	Ala	Gly 1900	Ala	Asp	Ala	Asn	Ala 1905	Gln	Asp	Asn
Met	Gly 1910	Arg	Cys	Pro	Leu	His 1915	Ala	Ala	Val	Ala	Ala 1920	Asp	Ala	Gln
Gly	Val 1925	Phe	Gln	Ile	Leu	Ile 1930	_	Asn	Arg	Val	Thr 1935	Asp	Leu	Asp
Ala	Arg 1940	Met	Asn	Asp	Gly	Thr 1945	Thr	Pro	Leu	Ile	Leu 1950	Ala	Ala	Arg
Leu	Ala	Val	Glu	Gly	Met	Val	Ala	Glu	Leu	Ile	Asn	Cys	Gln	Ala

	1955					P1 1960	1073	us s	eq 1	ist	updat 1965	ed.S	T25.	txt
Asp	Val 1970		Ala	Val	Asp	Asp 1975	His	Gly	Lys	Ser	Ala 1980	Leu	His	Trp
Ala	Ala 1985	Ala	Val	Asn	Asn	Val 1990	Glu	Ala	Thr	Leu	Leu 1995	Leu	Leu	Lys
Asn	Gly 2000	Ala	Asn	Arg	Asp	Met 2005		Asp	Asn	Lys	Glu 2010	Glu	Thr	Pro
Leu	Phe 2015	Leu	Ala	Ala	Arg	Glu 2020	Gly	Ser	Tyr	Glu	Ala 2025	Ala	Lys	Ile
Leu	Leu 2030	Asp	His	Phe	Ala	Asn 2035	Arg	Asp	Ile	Thr	Asp 2040	His	Met	Asp
Arg	Leu 2045	Pro	Arg	Asp	Val	Ala 2050	Arg	Asp	Arg	Met	His 2055	His	Asp	Ile
Val	Arg 2060	Leu	Leu	Asp	Glu	Tyr 2065	Asn	Val	Thr	Pro	Ser 2070	Pro	Pro	Gly
Thr	Val 2075	Leu	Thr	Ser	Ala	Leu 2080	Ser	Pro	Val	Ile	Cys 2085	Gly	Pro	Asn
Arg	Ser 2090	Phe	Leu	Ser	Leu	Lys 2095	His	Thr	Pro	Met	Gly 2100	Lys	Lys	Ser
Arg	Arg 2105	Pro	Ser	Ala	Lys	Ser 2110	Thr	Met	Pro	Thr	Ser 2115	Leu	Pro	Asn
Leu	Ala 2120	Lys	Glu	Ala	Lys	Asp 2125	Ala	Lys	Gly	Ser	Arg 2130	Arg	Lys	Lys
Ser	Leu 2135	Ser	Glu	Lys	Val	Gln 2140	Leu	Ser	Glu	Ser	Ser 2145	Val	Thr	Leu
Ser	Pro 2150	Val	Asp	Ser	Leu	Glu 2155	Ser	Pro	His	Thr	Tyr 2160	Val	Ser	Asp
Thr	Thr 2165	Ser	Ser	Pro	Met	Ile 2170	Thr	Ser	Pro	Gly	Ile 2175	Leu	Gln	Ala
Ser	Pro 2180	Asn	Pro	Met	Leu	Ala 2185	Thr	Ala	Ala	Pro	Pro 2190	Ala	Pro	Val
His	Ala 2195	Gln	His	Ala	Leu	Ser 2200	Phe	Ser	Asn	Leu	His 2205	Glu	Met	Gln
Pro	Leu 2210		His	Gly	Ala	Ser 2215		Val	Leu	Pro	Ser 2220	Val	Ser	Gln
Leu	Leu 2225	Ser	His	His	His	Ile 2230		Ser	Pro	Gly	Ser 2235	Gly	Ser	Ala
Gly	Ser 2240	Leu	Ser	Arg	Leu	His 2245	Pro	Val	Pro	Val	Pro 2250	Ala	Asp	Trp
Met	Asn 2255	Arg	Met	Glu	Val	Asn 2260		Thr	Gln	Tyr	Asn 2265	Glu	Met	Phe
Gly	Met 2270		Leu	Ala	Pro	Ala 2275	Glu	Gly	Thr	His	Pro 2280	-	Ile	Ala
Pro	Gln 2285	Ser	Arg	Pro	Pro	Glu 2290	Gly	Lys	His	Ile	Thr 2295	Thr	Pro	Arg
Glu	Pro 2300	Leu	Pro	Pro	Ile	Val 2305		Phe	Gln	Leu	Ile 2310	Pro	Lys	Gly
										_				

P11073us seq list updated.ST25.txt

Ser	Ile 2315	Ala	Gln	Pro	Ala	Gly 2320	Ala	Pro	Gln	Pro	Gln 2325	Ser	Thr	Cys
Pro	Pro 2330	Ala	Val	Ala	Gly	Pro 2335	Leu	Pro	Thr	Met	Tyr 2340	Gln	Ile	Pro
Glu	Met 2345	Ala	Arg	Leu	Pro	Ser 2350	Val	Ala	Phe	Pro	Thr 2355	Ala	Met	Met
Pro	Gln 2360	Gln	Asp	Gly	Gln	Val 2365	Ala	Gln	Thr	Ile	Leu 2370	Pro	Ala	Tyr
His	Pro 2375	Phe	Pro	Ala	Ser	Val 2380	Gly	Lys	Tyr	Pro	Thr 2385	Pro	Pro	Ser
Gln	His 2390	Ser	Tyr	Ala	Ser	Ser 2395	Asn	Ala	Ala	Glu	Arg 2400	Thr	Pro	Ser
His	Ser 2405	-	His	Leu	Gln	Gly 2410	Glu	His	Pro	Tyr	Leu 2415	Thr	Pro	Ser
Pro	Glu 2420	Ser	Pro	Asp	Gln	Trp 2425	Ser	Ser	Ser	Ser	Pro 2430	His	Ser	Ala
Ser	Asp 2435	Trp	Ser	Asp	Val	Thr 2440	Thr	Ser	Pro	Thr	Pro 2445	Gly	Gly	Ala
Gly	Gly 2450		Gln	Arg	Gly	Pro 2455	Gly	Thr	His	Met	Ser 2460	Glu	Pro	Pro
His	Asn 2465	Asn	Met	Gln	Val	Tyr 2470	Ala							